

What is claimed is:

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1. A method of evaluating a dependency graph of a graphics creation process, comprising:
passing a function of a first dependency node to a second dependency node; and
evaluating the function as part of an evaluation of the second dependency node.

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2. A method as recited in claim 1, wherein the function comprises a self evaluating data structure.

3. A method as recited in claim 2, wherein the function comprises a function having a defined set and type of inputs and outputs.

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4. A method as recited in claim 2, wherein the structure comprises a function pointer.

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5. A method as recited in claim 2, wherein the structure comprises a function calling method.

6. A method as recited in claim 2, wherein the evaluating comprises determining a type of a passed parameter.

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7. A method as recited in claim 6, wherein the function

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1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	

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comprising a function calling method and containing information describing a set of input and output parameters the function accepts where the information determines if function attribute types within the dependency graph are compatible and comprising default values for all input and output parameters;

mapping parameters of first and second functions of the first and second nodes, where the mapping comprises an index, defines a relationship where input parameters are ignored and output parameters are unmapped and take on default values, where parameter value and type are passed for the mapping and the function data structure and value index are passed for the mapping; and

evaluating the function as part of an evaluation of the second dependency node comprising determining a type of a passed parameter where parameter types are identified dynamically as the dependency graph is executed.

18. A method as recited in claim 17, wherein the mapping comprises an index remapping and a matrix of data casting methods which will change one type of data into another.

19. A method comprising:

passing a function from a first node in a node network to a second node in the node network; and
evaluating the function as part of an evaluation of the second node.

20. An apparatus comprising a computer including a dependency node evaluation system having functions passed between nodes of a dependency graph of a graphics creating process.

21. A data structure provided on computer readable storage controlling a computer in association with evaluating a dependency graph of a graphics creation process, the data structure comprising an RTTI

parameter list, a mapping substructure comprising an index mapping, mapping methods, and a data casting matrix, a function pointer, and methods for setting inputs, getting outputs, and evaluating a passed function.

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22. A method of evaluating a dependency graph of a graphics

creation process, comprising performing, by a destination node, of an algorithm having a function known to the destination node by evaluating a self evaluating data structure passed from a source node and expected to precisely implement the function known to the destination node where the

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self evaluating data structure can comprise a different function with different parameters and performing the different function actually requested by the destination node.

